

**FIG. 1**

The first series of experiments was conducted to determine the effect of the concentration of the electrolyte on the performance of the MEAs. The results are shown in Figure 1. The performance of the MEAs improved as the concentration of the electrolyte increased from 0.5 M to 1.0 M. The performance of the MEAs prepared by the new process was significantly better than that of the MEAs prepared by the old process.

### Electrochemical Performance

The electrochemical performance of the MEAs was evaluated by measuring the open circuit potential (OCP) and the current density at a fixed potential. The OCP of the MEAs prepared by the new process was higher than that of the MEAs prepared by the old process. The current density of the MEAs prepared by the new process was also higher than that of the MEAs prepared by the old process. The results are shown in Figure 2. The performance of the MEAs prepared by the new process was significantly better than that of the MEAs prepared by the old process.

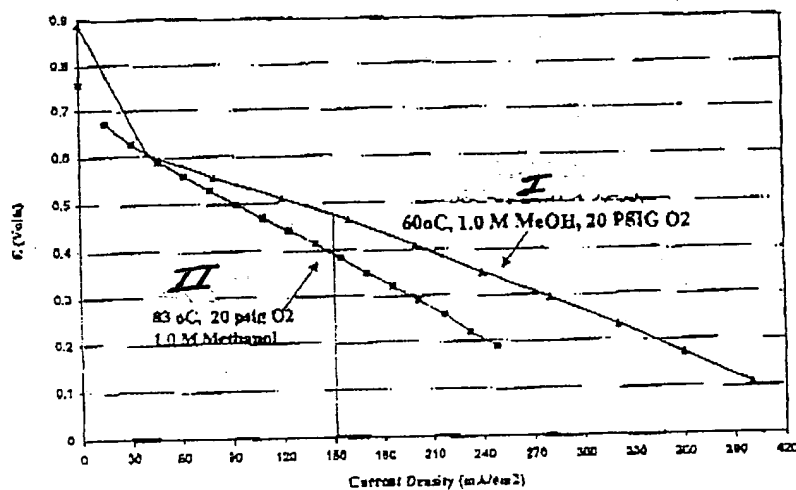


Figure 2. Electrochemical performance of MEAs prepared by the old process and the new process.

FIG. 2